TD 00498923994465

P.09

IN/PA-98

17

CLAIMS:

1. Oil extracted from the seeds of Momordica charantia

L., for topical application to the body of a mammal,

and useful as anti-inflammatory, anti-arthritic,

vasculodilatory and wound healing agent, said oil

comprising essentially of::

Capric acid 0.7-1.2% by wt.

Lauric acid 0.6-1% by wt.

Palmitic acid 4.2-5.0% by wt.

Stearic acid 59-62% by wt.

Oleic acid 13-15% by wt.

Arachidic acid 3-5% by wt.

Linoleic acid 8-10% by wt.

Other undetected minor acids 6-8% by wt.

2. Oil as claimed in claim 1 wherein the ingredients of the oil are as under:-

Capric acid 0.9% by wt.

Lauric acid 0.8% by wt.

Falmitic acid 4.2% by wt.

Stearic acid 60.90% by wt.

Oleic acid 13.30% by wt.

Arachidic acid 3.20% by wt.

Linoleic acid 9.80% by wt.

Other minor undetected

components and acids - 6.90% by wt.

3. A novel oil composition comprising:oil extracted from the 70 to 80% by wt. of Momordica charantia L, one or more vegetable oils, 15 to 25% by wt.

SUBSTITUTE SHEET (ART 34)

.....

IN/PA-98

3% by wt.

fragrance oil, essential oil

1% by wt.

and at least one perfume component 2% by wt.

18

- 4. An oil composition as claimed in claim 3 wherein the vegetable oil is selected from sesame oil, coconut oil, groundnut oil, olive oil, palm oil and other foodgrade oil.
- 5. An oil composition as claimed in claim 3 wherein the fragrance oil is selected from rose oil, sandalwood oil, geranium oil or lavender oil.
- 6. An oil composition as claimed in claim 3 wherein the composition is in physical forms selected from cream, gel, lotion, or combinations thereof.
- 7. An oil composition as claimed in claim 3 wherein the composition is prepared by mixing the oil extracted from *Momordica* charantia L. with suitable pharmaceutically acceptable carriers.
- 8. A process for the extraction of oil from the seeds of Momordica charantia L., comprising the steps of:
 - (i) grinding dry seeds to a fine powder in a suitable mill,
 - (ii) treating the pulverized seeds with a mixture of non- polar solvents,
 - (iii) allowing the mixture to stand for 48 hours at room temperature so that the oil separates out,
 - (iv) collecting the oil from the supernatant layer using a separating funnel,

SUBSTITUTE SHEET (ART 34)

TO 00498923994465

P.11

IN/PA-98

19

- (v) refluxing the mixture obtained in step (iv) with any non-polar solvent to remove the last traces of oil.
- (vi) purifying the oil by adding 2-5% zinc acetate dissolved in water to precipitate the salts with impurities from the oil, and
- (vii) analysis of the oil extracted by gas liquid chromatography.
- 9. A process as claimed in claim 8 wherein the seeds of Momordica charantia L., are split, washed thoroughly with water 2-3 times to render the seeds substantially free from impurities and dried under vacuum before the grinding in step (i).
- 10. A process as claimed in claim 8 wherein the non-polar solvent comprises a mixture of acetone with an aromatic or aliphatic hydrocarbon selected from the group of benzene, hexane, petroleum ether and ethyl ether.
- 11. A process as claimed in claim 10 wherein the ratio of the aliphatic or aromatic hydrocarbon in the non-polar solvent mixture is 2:1.
- 12. Use of the oil extracted from Momordica charantia L or its composition for treatment of inflammation, arthritis, vasculodilation and wounds in a patient body, by applying the oil or composition as claimed in claims 1 to 7 on the affected area of the patient body for a period of about six to twenty weeks.

SUBSTITUTE SHEET (ART 34)